

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/575,337  
Source: IFwp  
Date Processed by STIC: 4/24/06

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**PATENT APPLICATION: US/10/575,337**

**DATE: 04/24/2006**  
**TIME: 16:20:05**

**Input Set : E:\Avalon 213.txt**  
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 C--> 10 <141> CURRENT FILING DATE: 2006-04-07  
 12 <150> PRIOR APPLICATION NUMBER: 60/509,515  
 13 <151> PRIOR FILING DATE: 2003-10-08  
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432	ggccggggac	ccgtgggccc	gttcctgggg	tggcccagag	caaggcaag	tttcgcccgg	60
434	gaccgcaca	gctggccggg	agccagttagc	aggaaaggc	cggctggcgc	gagcacccgc	120
436	cacgcggagc	catggggcg	gggcctggc	ggggcgggg	ccgcggccga	gggcggggca	180
438	gggaggcagc	atgctaaacc	gggtgcgc	ggccgtggcg	cacctggta	gctccgggg	240
440	cgctccgcct	ccgcgcacca	aatccccgga	cctgcacca	gccgcctcg	cgccgcacccgc	300
442	cgccgctcca	gaagcgcaca	ggagccctcc	cgcgaaggct	gggagcggga	gcgcgacgccc	360
444	cgcgaaggct	gttggggctc	gagcgagctt	ctccagaccg	acctttctgc	agctgagccc	420
446	cggggggctg	cgacgcgc	atgaccacgc	gggcggggct	gtgcaaagcc	ccccggacac	480

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 04/24/2006  
 PATENT APPLICATION: US/10/575,337                    TIME: 16:20:06

· Input Set : E:\Avalon 213.txt  
 Output Set: N:\CRF4\04242006\J575337.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 3377,3402  
 Seq#:4; N Pos. 1933,1958  
 Seq#:17; N Pos. 1259  
 Seq#:19; N Pos. 113  
 Seq#:79; N Pos. 5428,5429,5430,5431,5432  
 Seq#:90; N Pos. 1692,1693,1694,1695,1696  
 Seq#:116; N Pos. 2208,2209  
 Seq#:118; N Pos. 1002,1003  
 Seq#:180; N Pos. 602,2373,2379,2386,2396,2399,2410,2417,2432,2435,2449,2462  
 Seq#:180; N Pos. 2472,2483,2487,2497,2498,2504,2510,2515,2519,2542,2546  
 Seq#:180; N Pos. 2554,2569,2570,7953,7996,8001,8587  
 Seq#:191; N Pos. 1661,1667,1674,1684,1687,1698,1705,1720,1723,1737,1750  
 Seq#:191; N Pos. 1760,1771,1775,1785,1786,1792,1798,1803,1807,1830,1834  
 Seq#:191; N Pos. 1842,1857,1858  
 Seq#:197; N Pos. 1856  
 Seq#:216; N Pos. 1445,1488,1493  
 Seq#:222; N Pos. 74  
 Seq#:255; N Pos. 93,8086,8147,8196,8208,8209,8210,8230,8255,8286,8288,8299  
 Seq#:255; N Pos. 8312,8331,8346,8347,8377,8391,8396,8401,8403,8431,12395  
 Seq#:263; N Pos. 93  
 Seq#:271; N Pos. 1846  
 Seq#:276; N Pos. 3,64,113,125,126,127,147,172,203,205,216,229,248,263,264  
 Seq#:276; N Pos. 294,308,313,318,320,348  
 Seq#:295; N Pos. 10328  
 Seq#:302; N Pos. 152  
 Seq#:335; N Pos. 1168  
 Seq#:354; N Pos. 193  
 Seq#:393; N Pos. 9022  
 Seq#:409; N Pos. 2369  
 Seq#:471; N Pos. 7997  
 Seq#:479; N Pos. 4879

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
 per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27  
 Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51  
 Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75  
 Seq#:76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99  
 Seq#:100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117  
 Seq#:118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135  
 Seq#:136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153  
 Seq#:154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171  
 Seq#:172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189  
 Seq#:190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 04/24/2006  
PATENT APPLICATION: US/10/575,337                    TIME: 16:20:06

Input Set : E:\Avalon 213.txt  
Output Set: N:\CRF4\04242006\J575337.raw

Seq#:208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225  
Seq#:226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243  
Seq#:244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261  
Seq#:262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279  
Seq#:280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297  
Seq#:298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315  
Seq#:316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333  
Seq#:334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351  
Seq#:352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369  
Seq#:370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387  
Seq#:388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405  
Seq#:406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423  
Seq#:424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441  
Seq#:442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459  
Seq#:460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477  
Seq#:478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495  
Seq#:496,497,498,499,500,501

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/575,337

DATE: 04/24/2006  
TIME: 16:20:06

Input Set : E:\Avalon 213.txt  
Output Set: N:\CRF4\04242006\J575337.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:3360  
L:418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1920  
L:1484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1200  
L:1804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:60  
L:7816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:5400  
L:8560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:1680  
L:9752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:2160  
L:9878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:960  
L:16303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:600  
M:341 Repeated in SeqNo=180  
L:17529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191 after pos.:1620  
M:341 Repeated in SeqNo=191  
L:17975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:197 after pos.:1800  
L:19457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:216 after pos.:1440  
L:19817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:60  
L:21764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255 after pos.:60  
M:341 Repeated in SeqNo=255  
L:23022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:263 after pos.:60  
L:23960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:271 after pos.:1800  
L:24451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:276 after pos.:0  
M:341 Repeated in SeqNo=276  
L:26211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295 after pos.:10320  
L:27517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302 after pos.:120  
L:34125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:335 after pos.:1140  
L:35439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:354 after pos.:180  
L:38577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:393 after pos.:9000  
L:40815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:409 after pos.:2340  
L:53485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:471 after pos.:7980  
L:55133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:479 after pos.:4860